**Assignment-7**

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**1. What is the purpose of renderTable() function here?**

**Answer:** The purpose of the **renderTable()** function is to populate the HTML table body with rows of country information based on the data stored in the JS **countries** array.

As we can see from the code that, there is a **countries** array present which holds the information of different countries (like name, population, languages separated by comma).

The **renderTable()**  function first clears the contents of the table body. Then, it loops through the **countries** array and creates a new row (<tr>) for each country. Inside the <tr> element, it creates three <td> elements - one for the country name, one for the population, and one for the languages. After that, the function appends the row to the table’s <tbody> element using **tablebody.appendChild(row)**;

**2. Explain sortTable(column) in this scope.**

**Answer:** In this code, the **sortTable(column)** function is used to sort the **countries** array based on a specific column. The **sortTable(column)** takes a single parameter column and the sort of operation is performed by the column (name or population or languages). Within the function there is a **comparator** by which the countries are compared based on the values in the specified column. If the value in the first country's column is greater than the value in the second country's column, a positive number (1) is returned, otherwise a negative number is returned (-1). Positive number (1) means the first country should come after the second country in the sorted array and negative number (-1) means the second country should come after the first country in the sorted array.

After the countries array is rearranged based on the selected column’s values, the **renderTable()** function is called which update the display view table with new sorted data.

**3. Make some changes in the HTML code and add relevant JS functions here.**

**Answer:**